

Table A-11. Company and other non-Federal funds for industrial R&D performance outside of the U.S. and number of companies with subsidiaries that performed industrial R&D both within and outside of the U.S., by industry and size of company: 1997–2000

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Industry and size of company	NAICS codes	1997		1998		1999 ¹		2000	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:									
All industries ²	21–23, 31–33, 42, 44–81	1,120	13,107	1,972	16,008	1,260	16,765	1,718	17,463
Manufacturing	31–33	--	--	--	--	747	12,354	572	12,252
Food.....	311	18	104	11	131	9	87	16 (S)	95
Beverage and tobacco products.....	312	1	(D)	1	(D)	1	(D)	1	(D)
Textiles, apparel, and leather.....	313–16	4	8	11	11	7	(D)	15	(D)
Wood products.....	321	2	0	0	0	1	(D)	0	0
Paper, printing and support activities.....	322, 323	11	(D)	12	51	11	(D)	9	(D)
Petroleum and coal products.....	324	5	63	4	20	3	(D)	3	9
Chemicals.....	325	67	2,609	110	2,635	105	3,243	94	3,578
Basic chemicals.....	3251	19	(D)	16	(D)	15	(D)	40	256
Resin, synthetic rubber, fibers, and filament.....	3252	4	(D)	7	(D)	7	(D)	4	(D)
Pharmaceuticals and medicines.....	3254	20	2,125	67	1,591	64	2,832	20	3,030
Other chemicals.....	325 (minus 3251–52, 3254)	24	191	21	678	18	95	30	(D)
Plastics and rubber products.....	326	50	186	26	188	42	172	23	168
Nonmetallic mineral products.....	327	14	19	8	47	5	40	14	40
Primary metals.....	331	7	10	16	23	5	7	3	(D)
Fabricated metal products.....	332	31	94	42	138	42	75	32	65
Machinery.....	333	84	609	93	741	70	707	86	736
Computer and electronic products.....	334	123	1,884	133	1,585	177	1,902	178	1,705
Computers and peripheral equipment.....	3341	14 (S)	343	18	424	12	289	25	(D)
Communications equipment.....	3342	21	346	22	478	22	(D)	33	377
Semiconductor and other electronic components.....	3344	32	937	42	(D)	98	302	34	327

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	1997		1998		1999 ¹		2000	
		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:									
Navigational, measuring, electromedical, and control instruments.....	3345	54	(D)	49	375	42	1,112	85	679
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	2	(D)	2	(D)	2	(D)	1	(D)
Electrical equipment, appliances, and components.....	335	48	221	73	109	33	433	20	455
Transportation equipment.....	336	31	3,203	27	4,273	90	3,933	27	3,640
Motor vehicles, trailers, and parts.....	3361–63	20	(D)	16	(D)	64	(D)	21	(D)
Aerospace products and parts.....	3364	6	198	6	335	6	(D)	3	(D)
Other transportation equipment.....	336 (minus 3361–64)	5	(D)	5	(D)	20	17	3	(D)
Furniture and related products.....	337	2	(D)	2	(D)	2	(D)	5	(D)
Miscellaneous manufacturing.....	339	36	896	32	790	47	963	47	942
Medical equipment and supplies.....	3391	26	(D)	24	(D)	38	(D)	26	(D)
Other miscellaneous manufacturing.....	339 (minus 3391)	10	(D)	8	(D)	8	(D)	21	(D)
Other manufacturing ³	31–33 (minus 311–16, 321–27, 331–37, 339)	1	(D)	2	(D)	--	--	--	--
Small manufacturing companies ⁴	Fewer than 50 employees	1	(D)	190	3	100	20	0	0
Nonmanufacturing	21–23, 42, 44–81	--	--	--	--	513	4,411	1,146	5,211
Mining, extraction, and support activities.....	21	6	36	6	59	52	48	6	43
Utilities.....	22	1	(D)	1	(D)	0	0	0	0

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Distribution by industry:									
Construction.....	23	2	(D)	4	18	1	(D)	1	(D)
Trade.....	42, 44, 45	103	1,639	242	3,157	93	2,356	345	2,244
Transportation and warehousing.....	48, 49	0	0	1	(D)	0	0	0	0
Information.....	51	97	709	136	1,322	108	1,379	135	1,564
Publishing.....	511	87	(D)	127	(D)	101	637	118	940
Newspaper, periodical, book, and database.....	5111	1	(D)	1	(D)	0	0	2	(D)
Software.....	5112	86	625	126	675	101	637	116	(D)
Broadcasting and telecommunications.....	513	2	(D)	2	(D)	1	(D)	1	(D)
Radio and television broadcasting.....	5131	0	0	0	0	0	0	0	0
Telecommunications.....	5133	2	(D)	2	(D)	1	(D)	1	(D)
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	0	0	0	0	0	0	0	0
Other information.....	51 (minus 511, 513)	9	57	7	(D)	6	(D)	16	(D)
Finance, insurance, and real estate.....	52, 53	3	(D)	4	(D)	3	(D)	4	(D)
Professional, scientific, and technical services.....	54	115	164	243	384	196	523	236	904
Architectural, engineering, and related services.....	5413	8	11	7	(D)	47	(D)	54	371
Computer systems design and related services.....	5415	52	63	145	105	67	146	101	(D)
Scientific R&D services.....	5417	51	67	89	258	81	287	80	292

See explanatory information and SOURCE at end of table.

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		Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]	Number of companies	Amount [In millions of dollars]
Distribution by industry:									
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	3	23	1	(D)	1	(D)	1	(D)
Management of companies and enterprises.....	55	2	(D)	0	0	2	18	5	(D)
Health care services.....	621–23	2	(D)	2	(D)	2	(D)	1	(D)
Other nonmanufacturing ³	56, 61, 624, 71, 72, 81	10	(S) 61	60	141	55	14	7	(S) 75
Small nonmanufacturing companies ⁴	Fewer than 15 employees	242	22	481	54	2	(D)	406	330
Distribution by size of company: [Number of employees]									
Total.....	(na)	1,120	13,107	1,972	16,008	1,260	16,765	1,718	17,463
5 to 24.....	(na)	243	33	583	65	46	1	484	352
25 to 49.....	(na)	6	2	321	141	51	14	86	37
50 to 99.....	(na)	157	68	163	45	231	117	188	455
100 to 249.....	(na)	129	108	226	258	264	140	246	421
250 to 499.....	(na)	93	114	126	159	144	243	132	162
500 to 999.....	(na)	83	205	131	172	156	860	188	532
1,000 to 4,999.....	(na)	236	2,057	242	2,080	204	2,099	228	2,238
5,000 to 9,999.....	(na)	79	1,352	86	1,009	81	1,188	74	1,352
10,000 to 24,999.....	(na)	57	2,632	56	3,381	48	2,965	49	3,626
25,000 or more.....	(na)	36	6,537	38	8,700	35	9,138	42	8,288

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¹ Some statistics for 1999 have been revised since originally published.

² The totals for "all industries" prior to 1999 are identical to corresponding totals previously published using the Standard Industrial Classification (SIC) system. Also, pre-1999 detail published using the North American Industry Classification System (NAICS) may not add to the totals. See the 'NOTES' below.

³ Manufacturing companies in the 1997 and 1998 samples that could not be classified with a NAICS code are included in "other manufacturing;" nonmanufacturing companies that could not be classified with a NAICS code are included in "other nonmanufacturing."

⁴ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.

(S) = Indicates imputation of more than 50 percent.

(--) = Indicates data not collected.

(na) = Not applicable.

NOTES: Starting with the 1999 survey, estimates are based on the North American Industry Classification System (NAICS). In prior years, estimates were based on the Standard Industrial Classification (SIC) system. For this table, companies in the 1997 and 1998 surveys were assigned NAICS industry codes based on their SIC industry codes. Consequently, the estimates for 1997 and 1998 in this table are not necessarily representative of the NAICS categories of industries in those years. They are included for comparison purposes only.

The R&D in this table is the industrial R&D performed outside the U.S. by a company's foreign subsidiaries or other foreign organizations funded from all sources except the Federal Government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments. Excluded from this table is company-funded R&D performed in the U.S. (e.g., R&D performed on U.S. soil by foreign subsidiaries or other foreign organizations).

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000